

PRELIMINARY ASSESSMENT

INTERSTATE METALS SEPARATING CORP.
AKA INTERSTATE CONCENTRATING CO.
275 DUKES ST.
KEARNY, HUDSON COUNTY, N.J.
EPA ID# NJD009717182

GENERAL INFORMATION AND SITE HISTORY

Interstate Metals Separating Corp. (IMSC) has operated a scrap metal reclamation facility at the subject site since 1943. The site covers 8.41 acres at the foot of Dukes Street (Block 252, Lots 7 and 8) and is bordered by wetland areas to the east and residential/industrial areas of Kearny on the remaining sides. The property is owned by Metals Realty Corp., which purchased the property from Johnson and Brothers File Co., in 1947. IMSC has operated at the site under a lease agreement since that time. Interstate Metals Separating Corp. may have operated under the following names during different periods of time as shown below:

Interstate Concentrating Co. (1946-1951)
Brown Metal Co. (1949-1956)
Alloys Trading Corp. (1956-1977).

SITE OPERATIONS OF CONCERN

IMSC facility operations included the following processes with approximate time periods shown below:

1. brass reclamation (late 1940's to present)
2. solder reclamation (1945 to present)
3. slag separation (1940's and 1950's)
4. nickel alloy processing (1950's)
5. mercury recovery (late 1950's to early 1960's)
6. copper recovery (1969 to 1976)

Operations currently active include brass and solder reclamation. Brass residues are recovered mechanically by a water process. Solder reclamation involves heating scrap gas meters in a rotary kiln for recovery of the melted solder. Metals handled in above processes include the following substances: antimony, chromium, copper, lead, mercury, tin, and zinc. Residues from past slag separation, brass reclamation, and mercury recovery were discharged into a vacant low-lying section of the property to the north. IMSC also received scrap aluminum from the U.S. military during the late 1940's, which was subsequently buried onsite.

During 1980 and 1981 the facility received 200-300 tons of waste rock, consisting of cement rock slabs from a factory floor of an industry in Maine which used mercury in their process. It was thought that the material contained large amounts of mercury so it was shipped to the Interstate facility to recover the mercury. Based upon analyses of rock samples submitted by IMSC the EPA determined that the material was non-hazardous and it was shipped offsite for disposal.

Kearny Health Department files contain reports of open slag piles of metal-sand on the facility property during the 1970's. The slag piles were



subsequently removed during 1976 for use as landfill material (location unknown).

GROUNDWATER ROUTE

The site is underlain by 6-10 feet of fill material and about 30 feet of sands and silts. A clay layer of unknown extent was encountered at a depth of 38 feet during site investigations by the consulting firm J.H. Crow Company. The principal aquifer unit in the area is the Brunswick Formation, which occurs below depths of 100-200 feet in this area and is used for industrial purposes.

There are 8 monitoring wells at the site which range in depth from 12 to 38 feet. An environmental report submitted by J.H. Crow Company 9/8/87 on behalf of IMSC contains soil and groundwater sampling data. Groundwater samples were sent to Industrial Corrosion Management to be analyzed for selected metals (copper, cadmium, chromium, lead, mercury, zinc), pH and conductivity. Several metal contaminants were detected in groundwater beneath the site including low levels of copper, lead, and mercury.

Ground water in the area is not used for drinking. No public or private potable wells were identified within a 3 mile radius of the site. Several industrial supply wells are located within 1-2 miles and are on the order of 200-700 feet deep. The potential for further ground water contamination exists due to the extensive soil contamination which has been documented at the site.

SURFACE WATER ROUTE

The nearest downslope surface water is Frank Creek, which is located about 1/2 mile east of the site and flows south before emptying into the Passaic River about 1 mile away. The potential for contaminants at IMSC to affect the above-mentioned surface water is low due to the distance from the site. There is an onsite lagoon which is reportedly used for process water and a pond which receives stormwater runoff. Water and sediment samples collected from the lagoon and pond indicate heavy metal contamination. Samples collected by J.H. Crow were analyzed by Industrial Corrosion Management for metals, pH, and conductivity.

AIR ROUTE

Due to the nature of operations at the IMSC facility, air contamination with metal oxides and particulates may occur if the scrubber is not operating properly. The facility has an air permit for a scrubber which is used in the solder recovery process which involves heating scrap gas meters in a kiln. Windblown dust from the site may also present a potential for air contamination. Kearny Health Department files contain complaints from area residents concerning contaminated dust from motorbike activity on unfenced portions of the site.

SOIL

Soil sampling has been conducted on several occasions by NJDEP personnel during 1981 and 1985, and J.H. Crow Company in 1987. Analytical data show gross contamination of soil with heavy metals such as copper, cadmium, lead, mercury, and zinc to depths up to 8-12 feet. PAH and BCB contamination were also detected in soil samples collected onsite. A rough estimate of the contaminated area would be about 100,000 cubic yards, assuming all 8.4 acres were contaminated to a depth of 8 feet.

DIRECT CONTACT

There have been no reported incidents of direct contact with contaminated areas onsite, however the potential exists since soil contamination has been identified in unfenced areas at the facility. A former employee of Interstate Metals has claimed to be a victim of mercury poisoning from exposure while working at the plant. The facility currently employs about 20 people; the potential exists for employees to become exposed to contaminated areas onsite.

FIRE AND EXPLOSION

Although smelting furnaces are used at the plant, the types of substances involved do not pose a potential for fire or explosive conditions.

ADDITIONAL CONSIDERATIONS

The potential for damage to flora and fauna exposure exists due to documented soil contamination and possible migration of contaminants into nearby wetland areas. Contamination of the food chain is also possible since heavy metals could impact wetland areas to the northeast. Soil contamination detected near the property border and migration of contaminated groundwater indicates a potential for damage to offsite property.

ENFORCEMENT ACTIONS

IMSC has hired the consulting firm J.H. Crow Company to investigate the extent of contamination, under the direction of NJDEP/DHWM Enforcement. A report containing soil and groundwater sampling data was submitted to NJDEP on 9/8/87. Additional sampling for EP Toxicity and offsite contamination has been requested by DHWM/Metro Regional Office.

RECOMMENDATIONS:

A high priority is assigned to the site due to the gross metal contamination which has been identified. Previous soil sampling and elevated OVA readings at several onsite locations warrant additional sampling for priority pollutants for soil and groundwater. NJDEP/DHWM Enforcement has requested EP Toxicity testing of onsite soils and an offsite investigation of contamination. The case is being transferred to the Bureau of Case Management.

Submitted By:

Ed Gaven, HSMS III
Bureau of Planning and Assessment
7-20-88



Preliminary Assessment

Interstate Metals Separating Corp.
275 Dukes St.
Kearny, Hudson County, NJ
EPA ID# NJD009717182



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NJ D009717182

II. SITE NAME AND LOCATION

01 SITE NAME (Legal address, or descriptive name of site)

Interstate Metals Separating Corp.

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

275 Dukes St.

03 CITY

Kearny

04 STATE

NJ

05 ZIP CODE

07032

06 COUNTY

Hudson

07 COUNTY CODE

08 CONG DIST

09 COORDINATES LATITUDE

40° 45' 07"

LONGITUDE

74° 08' 37"

Block 252 Lots 7 and 8 8.41 acres

10 DIRECTIONS TO SITE (Starting from nearest public road)

NJ Turnpike north to Exit 15W; bear right onto Harrison Ave. Right at first light, Schuyler Ave., and right onto Dukes St. Facility is at the foot of Dukes St.

III. RESPONSIBLE PARTIES

01 OWNER (If known)

Metals Realty Corp.

02 STREET (Business, mailing, residential)

275 Dukes St.

03 CITY

Kearny

04 STATE

NJ

05 ZIP CODE

07032

06 TELEPHONE NUMBER

(201) 998-7660

07 OPERATOR (If known and different from owner)

Interstate Metals Separating Corp.

08 STREET (Business, mailing, residential)

275 Dukes St.

09 CITY

Kearny

10 STATE

NJ

11 ZIP CODE

07032

12 TELEPHONE NUMBER

(201) 998-7660

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ☒ B. UNCONTROLLED WASTE SITE (RCRA 103) DATE RECEIVED: ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 2, 2, 88
☐ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER:

CONTRACTOR NAME(S):

02 SITE STATUS (Check one)

☐ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1946 Present

BEGINNING YEAR ENDING YEAR

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Metals including cadmium, chromium, copper, lead, mercury, nickel, and zinc.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Soil is contaminated with various metals including cadmium, chromium, copper, lead, mercury, nickel, and zinc. Metal contamination was also detected in groundwater and an onsite pond and lagoon. Soil contamination was detected in unfenced portions of

V. PRIORITY ASSESSMENT

facility.

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Remedies)

☒ A. HIGH ☐ B. MEDIUM ☐ C. LOW ☐ D. NONE

VI. INFORMATION AVAILABLE FROM

01 CONTACT

Ed Phillips

02 OF (Agency/ Organization)

NJDEP/DHWM Metro Region Enforcement

03 TELEPHONE NUMBER

(201) 669-3960

04 PERSON RESPONSIBLE FOR ASSESSMENT

Ed Gaven

05 AGENCY

NJDEP

06 ORGANIZATION

DHWM/BPA

07 TELEPHONE NUMBER

(609) 292-4320

08 DATE

8, 8, 88



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A SOLID
☐ B POWDER FINES
☒ C SLUDGE
☐ D OTHER _____
☐ E SLURRY
☐ F LIQUID
☐ G GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS Unknown
CUBIC YARDS Unknown
NO. OF DRUMS Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A TOXIC
☐ B CORROSIVE
☐ C RADIOACTIVE
☒ D PERSISTENT
☐ E SOLUBLE
☐ F INFECTIOUS
☐ G FLAMMABLE
☐ H IGNITABLE
☐ I HIGHLY VOLATILE
☐ J EXPLOSIVE
☐ K REACTIVE
☐ L INCOMPATIBLE
☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequent listed CAS Numbers)

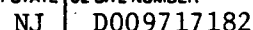
01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Beryllium	7440-41-7		32.3	ppm
MES	Cadmium	7440-43-9		414	ppm
MES	Chromium	7440-47-3	Concentration shown	915	ppm
MES	Copper	7440-50-8	are the highest	70,800	ppm
MES	Lead	7439-92-1	levels detected in	38,600	ppm
MES	Mercury	7439-97-6	soil samples.	3,470	ppm
MES	Nickel	7440-02-0		18,800	ppm
MES	Selenium	7782-49-2		30	ppm
MES	Silver	7440-22-4		301	ppm
MES	Zinc	7440-66-6		514,000	ppm
SOL	Chloroform	67-66-3		2.74	ppb
SOL	Methylene chloride	75-09-2		79.2	ppb
SOL	Trichloroethylene	79-01-6		3.99	ppb
OCC	Anthracene	120-12-7		3000	ppb
OCC	Benzo(a)anthracene	56-55-3		665	ppb
OCC	Benzo(b)fluoranthene	205-99-2		1200	ppb

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references e.g. state/ies sample analysis reports)

IMSC Environmental Report - J.H. Crow Co. (Ref. A)
NJDEP Sampling Episode, ETC Analytical Data (Ref. C)



☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE NJ 02 SITE NUMBER D009717182

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☒ OBSERVED (DATE 9/8/87) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
Groundwater samples show contamination with metals including copper (510 ppb), lead (290 ppb), and mercury (35 ppb).

Ref. A

01 ☒ B SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE 9/8/87) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
Water and sediment samples from an onsite lagoon and pond indicate heavy metal contamination. The lagoon is reportedly used for process water by the facility. Frank Creek is located about 1/2 mile to the east.

Ref. A

01 ☒ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
Due to the nature of operations air contamination with metal oxide particulates may occur if scrubber is not operating properly. Windblown dust from the site may also present a potential for air contamination.

Ref. T,U,X

01 ☐ D FIRE EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
Although smelting furnaces are used at the plant, the substances involved do not pose a potential for fire/explosive conditions.

01 ☒ E DIRECT CONTACT 02 ☐ OBSERVED (DATE) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
Contamination has been identified in unfenced portions of the site, representing a potential for direct contact.

Ref. A

01 ☒ F CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE 9/8/87) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED 84 04 NARRATIVE DESCRIPTION
Soil is contaminated with heavy metals to depths up to 8 feet. Soil samples have also shown PAH and PCB contamination.

Ref. A,C

01 ☒ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
Potential for drinking water contamination is low since public water is supplied from outside sources, although vertical migration of contaminants may affect deeper aquifers.

01 ☒ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
A former employee of Interstate Metals has claimed to be a victim of mercury poisoning from exposure while working at the plant. The potential exists for employee exposure to heavy metal contamination onsite.

Ref. I

01 ☒ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
Access to the site is possible since a portion of facility is unfenced. Area residents have complained of contaminated dust in the air as a result of motorbike activity.

Ref. U,X



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NJ D009717182

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Potential exists due to extensive heavy metal contamination and nearby wetlands.

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Potential exists due to documented heavy metal contamination and nearby wetland areas.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Potential exists due to documented heavy metal contamination and nearby wetland areas.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
03 POPULATION POTENTIALLY AFFECTED _____

02 ☒ OBSERVED (DATE 9/8/87)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Residues and tailings from brass reclamation and mercury recovery were dumped onsite during past operations. An unknown amount of aluminum foil was also buried at the site. Ref. A

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Potential exists through surface runoff and possible migration of contaminated groundwater. Soil samples collected near the property border show high levels of heavy metals. Ref. A

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Sewer and storm drains which run through the property are reported to be damaged.

Ref. A, X

01 ☒ P. ILLEGAL UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Hazardous materials generated as waste have been deposited throughout the site and used to fill in the marsh land. Ref. A

05 DESCRIPTION OF ANY OTHER KNOWN POTENTIAL OR ALLEGED HAZARDS

During periods of heavy rainfall, raw sewage has been observed seeping to the surface from damaged sewer lines which run through the property.

Ref. A, X

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Describe references e.g. state files, sample analysis reports)

IMSC Environmental Report - J.H. Crow Co. (Ref. A)
NJDEP Sampling Episode, ETC Sampling Data (Ref. C)
Trenton Dispatch Notification Report (Ref. I)
NJDEP Air Permit for Scrubber System (Ref. J)

Correspondence: Ecology International to Kearny Health Dept. (Ref. U)

Kearny Health Dept. Correspondence (Ref. X)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE NJ 02 SITE NUMBER D009717182

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <i>Check all that apply.</i>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A NPDES				
<input type="checkbox"/> B UIC				
<input checked="" type="checkbox"/> C AIR	Plant ID #10232	11/25/79	11/25/89	Metal roasters with scrubber
<input type="checkbox"/> D RCRA				
<input type="checkbox"/> E RCRA INTERIM STATUS				
<input type="checkbox"/> F SPCC PLAN				
<input type="checkbox"/> G STATE <i>Specify</i>				
<input type="checkbox"/> H LOCAL <i>Specify</i>				
<input type="checkbox"/> I OTHER <i>Specify</i>				
<input type="checkbox"/> J NONE				

III. SITE DESCRIPTION

01 STORAGE DISPOSAL <i>Check all that apply.</i>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <i>Check all that apply.</i>	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input checked="" type="checkbox"/> B. PILES	Unknown		<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input checked="" type="checkbox"/> E. TANK, BELOW GROUND	4,000	Gal.	<input type="checkbox"/> E. WASTE OIL PROCESSING	06 AREA OF SITE
<input checked="" type="checkbox"/> F. LANDFILL	Unknown		<input type="checkbox"/> F. SOLVENT RECOVERY	8.41 Acres
<input type="checkbox"/> G. LANDFARM			<input checked="" type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER <i>(Specify)</i>	
<input type="checkbox"/> I. OTHER <i>Specify</i>				

07 COMMENTS

01B. Slag piles containing metallic particles mixed with sand and piles of waste rock have been removed from the site.
01E. Two active 2,000-gallon tanks contain No. 2 fuel oil.
01F. Residues from brass reclamation and mercury recovery were discharged onto the ground at the site. An unknown amount of scrap aluminum is buried onsite.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES *Check one*
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Documented soil contamination indicates unstable containment of wastes.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☒ YES ☐ NO
02 COMMENTS

Contaminated areas in an unfenced portion of the site have been identified.

VI. SOURCES OF INFORMATION *(Cite specific references, e.g. state files, sample analysis, reports)*

IMSC Environmental Report - J. H. Crow Co. (Ref. A)
NJDEP/DHWM Enforcement Inspection (Ref. F)
NJDEP Underground Storage Tank Questionnaire (Ref. J)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE NJ 02 SITE NUMBER D009717182

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A. ☒ B. ☐
NON-COMMUNITY C. ☐ D. ☐

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☐ B. ☐ C. ☒
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. 20-25 (mi)
B. (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available)
☒ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE
COMMERCIAL INDUSTRIAL IRRIGATION (No other water sources available)

02 POPULATION SERVED BY GROUND WATER NA

03 DISTANCE TO NEAREST DRINKING WATER WELL >3 (mi)

04 DEPTH TO GROUNDWATER
2-4 (ft)

05 DIRECTION OF GROUNDWATER FLOW
West

06 DEPTH TO AQUIFER
OF CONCERN
>100 (ft)

07 POTENTIAL YIELD
OF AQUIFER
(gpd)

08 SOLE SOURCE AQUIFER
☐ YES ☒ NO

09 DESCRIPTION OF WELLS including useage, depth, and location relative to population and buildings

There are no major public or private potable supply wells within 3 miles of the site. Several industrial supply wells are located within a 1-2 miles and are on the order of 200-700 feet deep, drawing from the Brunswick formation. The Town of Kearny receives water from the North Jersey District Water Supply Commission.

10 RECHARGE AREA

☐ YES COMMENTS
☐ NO

11 DISCHARGE AREA

☐ YES COMMENTS
☐ NO

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

Onsite lagoon/pond

☒

Onsite (mi)

Frank Creek

☐

0.5 (mi)

Passaic River

☐

1.0 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE
A. 17,800
NO. OF PERSONS

TWO (2) MILES OF SITE
B. 57,800
NO. OF PERSONS

THREE (3) MILES OF SITE
C. 155,300
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

< 0.10 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

Numerous

04 DISTANCE TO NEAREST OFF-SITE BUILDING

< 0.10 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)

Site is located in an industrial area with residential areas of Kearny located a few hundred feet to the west. Population within 3 miles of site includes Kearny, Harrison, North Arlington, and portions of Belleville, Lyndhurst, and Newark.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE NJ 02 SITE NUMBER D009717182

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE Check one

Fill material

☐ A. $10^{-11} - 10^{-10}$ cm/sec ☐ B. $10^{-10} - 10^{-9}$ cm/sec ☒ C. $10^{-9} - 10^{-8}$ cm/sec ☐ D. GREATER THAN 10^{-8} cm/sec

02 PERMEABILITY OF BEDROCK Check one

Shale

A. IMPERMEABLE ☐ B. RELATIVELY IMPERMEABLE ☐ C. RELATIVELY PERMEABLE ☒ D. VERY PERMEABLE ☐
(Less than 10^{-10} cm/sec) ($10^{-10} - 10^{-9}$ cm/sec) ($10^{-9} - 10^{-8}$ cm/sec) (Greater than 10^{-8} cm/sec)

03 DEPTH TO BEDROCK

>100 (ft.)

04 DEPTH OF CONTAMINATED SOIL ZONE

8-12 (ft.)

05 SOIL pH

6.85-11.55

06 NET PRECIPITATION

12 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE
SITE SLOPE

<1 %

DIRECTION OF SITE SLOPE

East-northeast

TERRAIN AVERAGE SLOPE

<1 %

09 FLOOD POTENTIAL

NA

SITE IS IN YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

NA

11 DISTANCE TO WETLANDS (in feet)

ESTUARINE

OTHER

A. 0.25 (ft.)

B. (ft.)

12 DISTANCE TO CRITICAL HABITAT for endangered species

NA

ENDANGERED SPECIES

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. <0.10 (mi)

B. <0.10 (mi)

C. NA (mi)

D. (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is relatively flat. Surface runoff flows from higher elevations along Dukes St. and Tappan St. to the east across the site, and may collect in the onsite lagoon and pond. Elevations range from over 6 feet above MSL on the upland portion of the site to below sea level in the storm water pond and lagoon. The site is underlain by approximately 3 feet of fill material, 3-7 feet of organic material (meadowland mat), and sands and silts to depths of 30-40 feet. A clay layer was encountered at 38 feet during the J.H. Crow Co. investigation

VII. SOURCES OF INFORMATION (Give specific references, e.g., state files, sample analysis, reports)

USGS Quad Map

IMSC: Environmental Report - J.H. Crow Co. (Ref. A)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE NJ 02 SITE NUMBER D009717182

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	8	Industrial Corrosion Management Randolph, NJ	Available
SURFACE WATER	6	Same as above	
WASTE	2	Stablex-Reuter, Camden, NJ	Available
AIR			
RUNOFF			
SPILL			
SOIL	102 2	Industrial Corrosion Management Environmental Testing Corp., Edison, NJ	Available
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
pH, conductivity	Soil pH 6.85-11.55; lagoon water pH 10.0
OVA (soil gas)	OVA readings at soil headspace: copper processing building 1000 ppm; between building and pond 70-300 ppm; eastern edge of pond 700 ppm.
Geiger Counter	Area between brass operations and lead smelting bldg: 21 micro R/Hr

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF _____ (Name of organization or individual)
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS NJDEP/DHWM Metro Region Office

V. OTHER FIELD DATA COLLECTED Provide narrative description

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IMSC Environmental Report - J.H. Crow Co. (Ref. A)
NJDEP Sampling Episode, ETC Sampling Data (Ref. C)
NJDEP Site Inspection, Sampling Data (Ref. O)
NJDEP/DHWM/BPA Pre-sampling Assessment (Ref. E)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE NJ 02 SITE NUMBER D009717182

II. CURRENT OWNER(S)

PARENT COMPANY (if applicable)

01 NAME Metals Realty Corp.	02 D+B NUMBER NA	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.) 275 Dukes St.	04 SIC CODE NA	10 STREET ADDRESS (P.O. Box, RFD, etc.)	11 SIC CODE
05 CITY Kearny	06 STATE NJ	07 ZIP CODE 07032	12 CITY
13 STATE	14 ZIP CODE		
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
13 STATE	14 ZIP CODE		
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
13 STATE	14 ZIP CODE		
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
13 STATE	14 ZIP CODE		

III. PREVIOUS OWNER(S) (list most recent first)

IV. REALTY OWNER(S) (if applicable, list most recent first)

01 NAME Johnson & Brothers File Co.	02 D+B NUMBER	01 NAME Metals Realty Corp.	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.) 275 Dukes St.	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY Kearny
06 STATE NJ	07 ZIP CODE 07032		
01 NAME Mendel Samuel & Sons, Inc.	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE		
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
06 STATE	07 ZIP CODE		

V. SOURCES OF INFORMATION (Give specific references e.g. state files, sample analysis, reports)

Kearny Tax Assessor's Office 201-991-2700



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE NJ 02 SITE NUMBER D009717182

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME Interstate Metals Separating Corp.
02 D+B NUMBER 00-971-5079
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 275 Dukes St.
04 SIC CODE 3341
05 CITY Kearny
06 STATE NJ 07 ZIP CODE 08032
08 YEARS OF OPERATION 1943-Present
09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME NA
11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)
13 SIC CODE
14 CITY
15 STATE
16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME None identified
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE
08 YEARS OF OPERATION
09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME
11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)
13 SIC CODE
14 CITY
15 STATE
16 ZIP CODE

01 NAME
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE
08 YEARS OF OPERATION
09 NAME OF OWNER DURING THIS PERIOD

10 NAME
11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)
13 SIC CODE
14 CITY
15 STATE
16 ZIP CODE

01 NAME
02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE
08 YEARS OF OPERATION
09 NAME OF OWNER DURING THIS PERIOD

10 NAME
11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)
13 SIC CODE
14 CITY
15 STATE
16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis, reports)

NJDEP Information Resource Center 609-984-2249



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NJ D009717182

II. ON-SITE GENERATOR

01 NAME NA	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME NA	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME NA	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NJ 0009717182

II. PAST RESPONSE ACTIVITIES NA

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES SUMP 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NJ D009717182

II PAST RESPONSE ACTIVITIES *(continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ S. CAPPING COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE 1976, 1981

03 AGENCY _____

Waste slag piles containing metals mixed with sand were removed in 1976; waste rock which may have contained mercury removed in 1981.

III. SOURCES OF INFORMATION *(Cite specific references e.g. state files, sample analysis, reports)*

IMSC Correspondence: Waste Pile Removal (Ref. W)
Kearny Health Department Correspondence (Ref. X)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D009717182

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Interstate Metals Separating Corp. has hired a consulting firm, J.H. Crow Company to investigate the extent of contamination. An environmental report containing soil and groundwater sampling data was submitted to DHWM Enforcement in September 1987.

Additional sampling is ongoing at the request of DHWM Enforcement.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IMSC Environmental Report - J.H. Crow Co. (Ref. A)
Correspondence: NJDEP/DHWM Enforcement to IMSC (Ref. D)